Diag. Cht. No. 1202-2.

Form 504

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

Type of Survey WIRE DRAG

Field No. WAHI-1356-WD Office No. H-8339 W.D

**LOCALITY** 

MAINE

General locality Coast of Maine

Locality Mount Desert Island

19.56

CHIEF OF PARTY

John C. Ellerbe

LIBRARY & ARCHIVES

DATE ....

COMM-DC 61300

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

#### HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8339

Field No. Wa-Hi-1356WD

State	MAINE	
General locality	COAST OF MAINE	
Locality	MOUNT DECERT ISLAND	
Scale 1:10,000	Date of survey 31 May - 10 Sept. 1	956
Instructions dated	9 Oct. 1956	
Vessel	WAINWRIGHT & HILGARD	
Chief of party	JOHN C. ELLERBE	
Surveyed by	D.:. JONES & J.E. GUTH	
Soundings taken by <b>T</b>	thanatek ayrapina keca keek Nyahal lead, wire DRAG	
Fathograms scaled by	R.M. BBAL	
Fathograms checked b	y J.E. GUTH	
DRAG STRIPS INK	W.W. FEAZEL (NORFOLK PROCESSING OFFICE) ED BY W.W. FEAZEL " " "	
Soundings in XXXX	mas feet at MLW MIXIAW	
REMARKS:		

U. S. GOVERNMENT PRINTING OFFICE 16-6520-1

#### DESCRIPTIVE REPORT

WIRE DRAG FIELD SHEET NO. WA-HI 1356-WD

PROJECT 15010

COAST OF MAINE

SCALE: 1:10,000

John C. Ellerbe - Chief of Party
1956

#### A. PROJECT

Supplemental Instructions dated 9 October 1956.

NOTE: A Descriptive Report was written for the Additional Investigation of Shoals on Hydro Sheet H-8029 which was plotted on WD-1356. Pertignent Data for that Special Investigation is not included in this report.

#### B. SURVEY LIMITS AND DATES

Sheet covers Latitude 44° 11.2' to 44° 16.2' and Longitude 68° 14.6' to 68° 25.9'. Field work was begun on 31 May 1956 and was completed on 10 September 1956.

#### C. VESSELS AND EQUIPMENT

The Ships WAINWRIGHT and HILGARD acted as Guide Launch and End Launch respectively, and a hired Maine lobster boat was used as a tender through 31 August 1956, and Launch C&GS-181 was used as tender on 10 September 1956. The Ship WAINWRIGHT was equiped with fathometer No. 58S, the HILGARD with an unnumbered fathometer, the hired launch with 139SF, and Launch CS-181 with an unnumbered fathometer.

#### D. TIDE STATIONS

Hourly heights for the reduction of soundings and drag depths were obtained from portable automatic tide gages at Southwest Harbor and Bass Harbor, Maine.

Reducers entered on the Boat Sheet were taken from the predicted tide table.

See Attachment No. 2.

#### E. SMOOTH SHEET

To be prepared by the Norfolk Processing Office.

#### F. CONTROL STATIONS

All control stations were located by conventional methods.

See Attachment No. 3.

#### G. SOUNDINGS AND DRAG TESTS

Soundings were obtained using the 808 fathometer. Test of the drag followed the method outlined in the manual.

#### H. CONTROL OF WIRE DRAG

Standard duel control methods were used. Cuts to the end buoy and then to the opposite vessel were taken immediately after the fix. The cuts were called plus (/) if object was to the right of the signal and minus (-) if to the left. Length of tow line was the distance from the center of the wheelhouse to the end buoy in each case.

#### J. ADEQUACY OF THE SURVEY

This survey is considered adequate and no further field work is considered necessary.

#### K. COMPARISON WITH CHART

In general the wire drag was in agreement with Chart 308. (13313) See Attachment No. 4 for a tabulation of hangs.

#### L. AIDS TO NAVIGATION

Aids to Navigation are included on Attachment No. 5. Sec N. P.O. LIST

#### M. FATHOMETER CORRECTION

Fathometer No. 139 SP was used on the hired launch throughout this sheet. Three bar checks affects the work on this sheet. Curves were plotted from these bar checks and the corrections scaled off. See Attachment No. 6.

#### N. TIME

Standard 60th Meridian time was used throughout the season.

#### P. LIST OF ATTACHMENTS

- Statistics
- Tide Note
- 3. List of Signals
- Hang Data
- Aids to Navigation
- Fathometer Corrections

Submitted:

Jack E. Guth Lieutenant, C&GS

Approved and Forwarded:

John C. Ellerbe, Commander, C&GS Chief of Party pu Don a

STATISTICS

Volume number	Day <u>Letter</u>	<u>Date</u> 1956	Number of Positions	Statute Miles	Sq. Naut. Miles
1	A	5-31	37	1.3	0.3
1	В	6-6	66	2.5	0.8
1	C	6-7	43	2.6	0.7
1	D	6-12	14	1.2	0.3
1	E	6-14	43	2.3	1.6
2	F.	6-15	87	5.2	2.3
2	G	6 <b>-29</b>	71	5.0	2.0
2	Н	6-20	73	4.4	3.7
3	J	6-26	62	4.6	3.4
3	K	6-27	56	4.2	2.4
3	L	6-29	32	2.3	0.9
3	M	7-2	15	1.3	1.1
3	N	9-10	12	1.0	0.2
		TOTAL	611	37.9	19.7

#### TIDE NOTE

Portable automatic tide gages were installed and maintained by this party at Southwest - off sheet family Harbor, Maine (Latitude 44 16.5' Longitude 68 18.8') and Bass Harbor, Maine (Latitude 44 14.5' Longitude 68 21.1').

The height of Mean Low Water above the zero of the tide staff at Southwest Harbor was 3.9 feet, and at Bass Harbor 3.6 feet.

Hourly heights were scaled from marigrams by party personnel.

All times noted are 60th Meridian Eastern Standard Time.

LIST OF SIGNALS

Name	Source	Name	Source
BASS	Triangulation	IRK	Photo-Hydro
DUCKY	do	IVY	do
PLA	do	J <b>O</b> N	do
		JOY	do
BUNK	Topographic	KAY	do
BUS	do	KEN	do
CUP	do	LAG	do
HAT	do	LAW	<b>do</b> V. P.O. V.
WAD	do	MAL	$\mathbf{do} \qquad \mathcal{C} \qquad$
ABE	Photo-Hydro	MAY	do
ACE	do	MIT	do (ib. 4°
AMY	do	NIP	do 27
AND	do	NOB	
ANY	do	NUT	do
BAD	do	OAK	do
BAN	do	ONE	do
BET	do	PED	do
CAM	do	PIN	do
CAR	do	PLY	do
CHI	do	POL	do
CHU	do	QUO	do
COW DAN	do	RAW	do
DAW	do	RAY	do
DAY	do	ROC	do
DIM	do	SAG	do
EAR	do	SAX	do
EAT	do	SIC	do
END	do	TAN	do
EON	do	TED	do
EYE	do	TOW	do
FLO	do	URP	do
FOG	do	USE	do
FUN	do	<b>V</b> 00	do
GAG	do	WAS	do
GUN	do	WEE	do
HAM	do	WIP	do
HEN	do	YAK	do
ICE	do	ZIG	do

#### HANG DATA

No.	Latitude	Longitude	Hang <u>Depth</u> Feet	Pesition Number	Clear Depth Feet	Position Number	Least Sodg. Feet
* 1	44 14.31	68° 17.4°	29 <sup>6</sup>	15D	22	100	
2	440 13.81	68° 17.81	49.5	22F	32.5	3D	46 not on chit 200
\3	440 12.71	68° 24.21	54.0	55H	38.5	28J	42.3
v 4	44° (13)6'	68° 23.1'	40.5	(15K)	21.5	50K	
5	See note on	Boat Sheet	Latitude 1.1			•	•

12.9'; Longitude 68° 18.2

See flagged date

# AIDS TO NAVIGATION ...

Object	Vol.	Page	Ship
Flin's Ledge buoy C#3"	1	24	WAINWRIGHT
Cranberry Island Ledge buoy Nu2n	ı	24	WAINWRIGHT
Western Way buoy B&W "WW"	1	25	WAINWRIGHT
Weaver Ledge buoy C"l"	3	31	WAINWRIGHT
Weaver Ledge Duoy 5"2"	3	44	WAINWRIGHT
Bass Harbor buoy (Entrance) "S2"	3	11	HILGARD
/ Bass Harbor buoy C"3"	3	15	HILGARD
- Long Ledge L'the Gong Buoy "1"	2	<i>P</i> 7	WAINWRIGHT

#### FATHOMETER CORRECTIONS

Hired Launch - Fathometer No. 139 SP - Initial Set at 0.0'

Dates 31 May thru 17 June	Depth A-scale (ft.) (all) B-scale (ft.) (all)	Correction -1.0 (ft.) \$\frac{1}{2}.0 (ft.)\$
18 June thru 26 June	A-scale (ft) 10.0-15.0 15.1-22.0 22.1-30.0 30.1-40.0 40.1- on B-scale (ft.) (all)	-0.4 (ft.) -0.6 -0.8 -1.0 -1.2 /1.8
27 June thru 5 July	A-scale (ft.) 0-15.0 15.1-25.0 25.1-32.0 32.1-40.0 40.1 - on B-scale (ft.) (all)	-0.2 (ft.) -0.4 -0.6 -0.8 -1.0 /2.0
Entire Sheet	0-2.3 (fms.) 2.4-4.0 4.1-5.6 5.7-7.5 7.6- on	-1.2 (ft.) -1.4 -1.6 -1.8 -2.0

#### NORFOLK PROCESSING OFFICE LIST OF SIGNALS H-8339

# TRIANGULATION STATIONS

BASS HARBOR HEAD L.H., 1861-1934
DUKY, 1944
OUT SOUTHWEST HARBOR CH. SPIRE, 1863-1934
PLA PLA, 1944
SHIP AND BARGE BEACON, 1908-34

PHOTO	<b>¥HW</b> DRO	STATI	ONS		SOU	RCE T-	11345			
BUNK CAR IVY	BUS CHI MAL	CUP DAW OAK	HAT DAY POL	WAD DIM RAY	ABE EAR SAX	AND END TAN	ANY FUN URP	BAD GAG VOO	BAN HAM WAS	CAM ICE WIP
					sou	RCE T-	11346			
ACE ONE	BET PIN	COW	DAN - SAG	EAT TED	HEN TOW	IRK	JON	LAW	TIM	NIP
					SOU	RCE T-	11351			
AMY WEE	EON	EYE	FLO	FOG	GUN	LAĠ	MAY	PED	RAW	SIC
					SOUF	CE T-	L1339			
JOY	KAY	KEN	NOB	NUT	PLY	QUO	USE	YAK	ZIG	сни '

# NORFOLK PROCESSING OFFICE FLOATING AIDS TO NAVIGATION H-8339 (Wa-Hi-1356WD)

BUOY	LATITUDE	LONGITUDE	DEPTH	POS. NO.	DATE
Flynns Ledge Buoy 3	44-14.41'	68-17.07'	_	lb	6/ 6/56
vCranberry I. Ledge Buoy 2	14.26	17.09	-	2b	Ħ
L'td. Bell Buoy	<b>a</b> 4.17	17.19	-	3b	<b>11</b>
Weaver Ledge Buoy 1	13.55	21.18	-	lj	6/26/56
<pre>Weaver Ledge Buoy 2</pre>	13.62	21.33	-	2 j	19
/Bass Harbor Buoy 5	14.25	21.03	-	3j	***
Bass Harbor Buoy 3	14.10	21.27		• 4j	£
Long Ledge L'td. Gong Buor 1	13.28	17.87	~	10 <b>f</b>	6/15/56

### NORFOLK RECORDS PROCESSING UNIT ADDENDUM

To Accompany

WIRE DRAG SURVEY H-8339 (Wa#Hi-1356WD)

#### GENERAL

All drag lines were plotted on rough overlays before being transferred to the smooth sheet. These overlays are being submitted with the smooth sheet as they contain notes by the smooth plotter explaining the problems encountered and the methods used to resolve them. In addition, there are flagged notes on the smooth sheet giving available data at each hang.

Prior hydrographic surveys were used, along with available cuts, to determine the positions of hangs. All drag strips were checked against these surveys to see that there were no conflicts between wire drag and hydrographic depths. Numerous revisions were made to drag diagrams so they would accurately reflect the recorded data.

The source of the hydrographic developement lines shown on the Guide Launch boat sheet is unknown. Field records for this work were not forwarded by the field party. See paragraph "A

#### DISCREPANCIES

A small split exists at Lat. 44-12.26 Long. 68-20.87! / 44-14.53 " 68-17.25! / 44-14.62 " 68-22.83' Areas of insufficient everlar exist at Lat. 44-12.80' Lpng. 68-18.90 and Lat. 44-14.50' Long. 68-17.20'~

Lines 22-36B and 1-4G were not plotted on the smooth sheet as they were not considered effective dragging. Seenexplanitory notes on the rough overlays.

Lat. 44-14.25 Long. 68-17.39 Line 53-59F, with an effective depth of 32 feet, cleared a hang of 28 feet obtained on line 7-15D. This condition is believed to have been caused by strain on the drag.

See Correction supplements of these lines. Using H-8029, Line 7 to 15D Was adjusted to hydro, and Two definate points of hang. Line 53 to 59 F Was also adjusted to conform to hydro and now 32ft does not clear the hangs at 28ft.

Respectfully submitted,

Hugh L. Proffitt

Cartegrapher

Norfolk, Va. 6 August 1963 FORM 1\$7 (3-16-55)

GEOGRAPHIC NAMES				True* of	inde /			Mag	Allas	, 5 /
Survey No. H-8339	∍w.d.	Chor B	or wo.	S. Hotel	lou lough	or local trade	S. O. Guide C	A POOL ME TO	J.S. Light	N
Name on Survey	A	B	C 40.		E	or F	۹. G	H	J.S. J.B.	ķ. /
BASS HARBOR	~									1
BASS HARBOR BUE HILL BAY	V	ļ							V	2
GREAT CRANBERRY	· ·		ļ	ļ	-		-			3
GREAT GOTT ISLAND	<u> </u>	<u> </u>	<del> </del>		-				V	4
Mour Desex I.	~			<u> </u>						5
PLACENTIA I.	V	1		-	ļ		<u> </u>	ļ		
WESTERN WAY	V		<del> </del>	ļ <u>.</u>		-	ļ		·V	-
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# Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. 8339W.D.

Records accompanying survey:	Smooth s	heets	.1;
boat sheets; sounding vols;	wire dra	g vols,	7;
Descriptive Reports; graphic rec	order er	velopes	.1;
special reports, etc. 1-A & D Sheet and 1	-Roll, I	rag stri	р
overlays. ?	• • • • • • •		
The following statistics will be submitted w rapher's report on the sheet:	ith the	cartog-	
Number of positions on sheet		611	
Number of positions checked		208	
Number of positions revised	•	01	
Number of soundings revised (refers to depth only)		• • • • •	
Number of soundings erroneously spaced		NA	
Number of signals erroneously plotted or transferred		* * * * * *	•
Topographic details	Time	••••	
Junctions	Time	03	
Verification of soundings from graphic record	Time	02	
Special adjustments	Time	• • • • •	
Verification by W.W. FEAZEL Total time	156	Date 2.	4-72
Reviewed by Time		Date	•••••

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

- 1. / The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.
- 2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.
- 3. r All reference to survey sheets mentioned in the descriptive report include the registry number and year.
- 4. / Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering.
- 5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.
- 6. / All positions verified instrumentally were check marked in the sounding records.
- 7. All critical soundings are clear and legible and are a little larger than the adjacent soundings.
- 8. The metal protractor has been checked within the last three months.

  \*\*Used Courts protractor\*\*
- 9. The protracting and plotting of all bad crossings were verified.

  MA.
- 10 All detached positions locating critical soundings, rocks or buoys were verified.
- 11. The boat sheet was compared with the smooth sheet.

- The spacing of soundings as recorded in the records was closely followed.

  \*\*M.A.\*\*
- 13. The bottom characteristics were shown on outstanding shoals.
- 14. VThe reduction and plotting of doubtful soundings were checked.
- 15. The transfer of contemporary topographic information was carefully examined.
- 16. All junctions were transferred and overlapping curves made identical.
- 17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.
- 18. The depth curves have been inspected before inking.
- 19. All triangulation stations and transfer of topographic and hydrographic signals were checked.
- 20. Heights of rocks were checked against range of tide.
- 21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.

  N.A. Superceded
- 22. / Unnecessary pencil notes have been removed.
- 23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
- 24. The low water line and delineation of shoal areas have been properly shown.
- 25. / Degree and minutes values and symbols have been checked.
- 26. Questionable soundings have been checked on the fathograms.

- 27. Source of shoreline and signals (when not given in report).
- 28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.
- 29. All aids located, with those on contemporary topographic sheets, have been shown on survey.
- 30. Depth curves were satisfactory except as follows:
- 31. Sounding line crossings were satisfactory except as follows:
- 32. /Junctions with contemporary surveys were satisfactory except as follows:
- 33. Condition of sounding records was satisfactory except as follows:
- 34. ~ The protracting was satisfactory except as follows:
- 35. The field plotting of soundings was satisfactory except as follows:
- 36. Notes to reviewer:

All general hangs as shown on the smooth Sheet have been revised to show definate points of hang. Prior Hydrographic Surveys were used extensively to fix these hangs. See envelops of Correction Supplements.

# VERIFICATION NOTE SURVEY H-8339WD

#### GENERAL

The smooth plotter's drag strip plotting overlays were lost so it was necessary for the verifier to check individually detached positions, and all wire drag positions affecting groundings or hangs. This was done on tracing paper overlays which are being forwarded.

This replot work by the verifier resulted in many minor revisions to the final positions of the points of grounding around charted shoals. Symbolization at these points of m grounding was changed to comply with the latest plotting directives. Soundings from prior hydrographic surveys were used extensively as an aid to fix hang locations on final bights.

Conflicts between sounding data and wire drag effective depths on lines 53 to 59F and 7 to 15D, as mentioned in the smooth plotter's Addendum, were resolved by redetermining hang positions.

#### DISCREPANCIES

As listed in the Addendum, three splits and one area of insufficient overlap remain on this survey.

Hugh L. Proffitt

Chief, Verification Branch, AMC

Norfolk, Va. March 13, 1972

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

December 4, 1963

Nautical Chart Division: R. H. Carstens

Plane of reference approved in 9 volumes of sounding records for

HYDROGRAPHIC SHEET 8339

Locality Mount Desert Island, Maine

Chief of Party: J. C. Ellerbe (1956)

Plane of reference is mean low water, reading

3.9 ft. on tide staff at Southwest Harbor

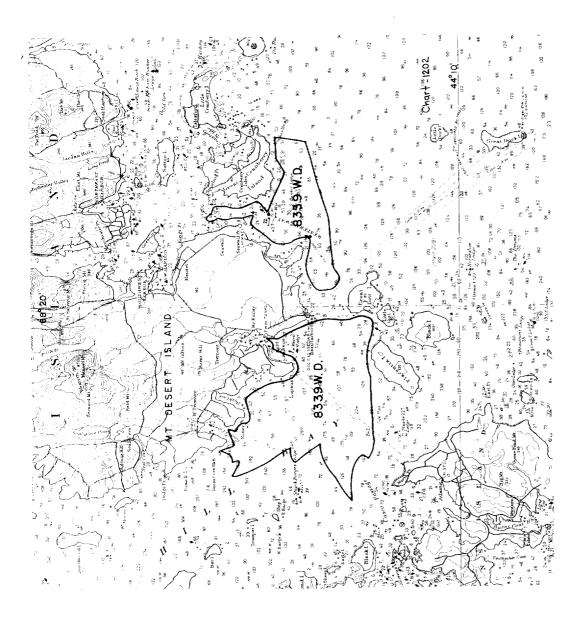
18.30 ft. below B. M. No. 6 (1953)

3.6 ft. on tide staff at Bass Harbor, 25.99 ft. below B. M. No. 6 (1946)

Height of mean high water above plane of reference is: Southwest Harbor 10.2 ft. Bass Harbor 9.9 ft.

Condition of records satisfactory except as noted below:

G. M. Symons.
Chief, Tide and Currents Branch



#### NAUTICAL CHART DIVISION

#### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8339 WD

#### **INSTRUCTIONS**

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
- 1. Letter all information.
  2. In "Remarks" column cross out words that do not apply.
  3. Give reasons for deviations, if any, from recommendations is

CHART	DATE	CARTOGRAPHER	REMARKS
1202	9-9-63	M. Rogerd	Part Before After Verification Review Inspection Signed Via
#19	,		Drawing No. Larger real chart 13079 Through
······································			1 larger scale chart 13070
1106	10-15-63	G.R. Mc Cann	Revned several saundings
1700	10 13 63	G.K.ME Cann	Fait Part Before Merification Review Inspection Signed Via/20
			Drawing No. #19, one adg wined. REE
0			· ·
307 Occon	12-13-63	m. Cogers	Fall Part Before After Verification Review Inspection Signed Via
			Drawing No.
·			
306 Bc	12/18/63	Helmer	Part Before A Verification Review Inspection Signed Via
		<i>//201000</i>	Drawing No. 13 Added critical 5 dgs, partly thru 307. In
			agreement with 1202 Dug19
201	5-10-1-11	1.7.0 11 1	
206	0/25/64	J. T. Gallaham	Part Before After Verification Review Inspection Signed Via
			Drawing No. aldel 2 sudge of 22/ft
308	10-15-64	J. P.M. Evoy	Fast Part Before Verification Review Inspection Signed Via
			Drawing No. 12c #307 one soly veriser
	232 1	0)	
- 1		Lyde & Electral	Full Part Before After Verification Review Inspection Signed Via
1		x gree is wester	Drawing No. #-
	3318		Drawing No. #7 - RESTORED 25NOGS 05,22,
		0 100 14	
300	11-20-73	Lyou & Everpul	Full Part Before After Verification Review Inspection Signed Via
	13313	/	Drawing No. #18- APP'D THEU CHART 206 DWG 7 -
<del></del>	1301	-0.4	
308	5-5.75	Stephen Hill	Entl Part Before After Verification Review Inspection Signed Via
	13316	200	
307-	-6.75.	<del>-4.,</del>	Drawing No. P. Apple no corrections.
		Steel 11.00	Full Part Bring After Verification Review Inspection Signed Via
	3314	Slephen Hell	Drawing N.
000	1 9 -	la 1 1/10	Drawing No. no corrections
2021	6-1-75)	stephen Hell	Part after VE before Expection thrudrawing
			no. 26
	7-14-75	Rott Holey	PARTLY APPLIED AFTER VERIFICATION REFORE REVIEW AN
33/8)		/ /	
321	4-3-85	Nato achi	11 4/
·		7/	Adequately applied after verification and beto,
3318 2	4-22-85 (	to mo	review and inspection Signed Via Brug # 10
	22 03 (	Wall JAT	Adequately applied after verification and before
	_	$\vee$ $\vee$ $\vee$	review and inspection. Signed via Dwg # 22.

#### MARINE CHART BRANCH

#### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8339 WD

#### **INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

- 1. Letter all information.
- 2. In "Remarks" column cross out words that do not apply.
- 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
/33/3	7-29-85	Sole And Chris	Full Part Before After Marine Center Approval Signed Via
, , , , ,	,	maar Just	
		V	Drawing No. Adequately applied after verification and before review and inspection, Signed via Drawing #29
13316	7-29-85	Whole Strain	Full Part Before After Marine Center Approval Signed Via
			Drawing No Adequately applied after verification and before review and inspection Signed via Drawing #23
13312	7-29-85	Walter J. Suj	Full Part Before After Marine Center Approval Signed Via
			Drawing No. Adequately applied after verification and before
			review and inspection. Signed via Drawing # 31
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
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			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			C.U.D. a.D. C. a.C. M. i.e.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			,